

## 1. Topic: Portable Robot for Seminars

With the KUKA "KR 6 R700 sixx", ICARUS Consulting GmbH owns a transportable seminar robot including control panel. The console contains the robot controller "Krc4" and the PLC "Simatic S7" with touchscreen panel.

The seminar robot is designed as a transportable station and can be transported in a medium-sized station wagon (e.g. VW Golf 7 Variant). For this purpose the control panel is designed to be separable.

The automatic operation at maximum speed (analogous to the operation in industrial use) is possible without danger thanks to the use of a PLC in connection with a safety scanner (SICK company). The use of safety fences is not necessary and is taken over by a safety scanner mounted under the table. The status of the sensor is displayed on the touch screen at all times.

The robot station is represented in the simulation software "Process Simulate" and the robot can be programmed offline, e.g. in seminars. The participants\* can load their self-created programs into the robot, test them there directly, make changes and transfer the changed program back to Process Simulate.